



Interoffice Memo Office of Design Policy & Support

DATE: 12/16/2020

FILE: P.I.# 0015605
Bulloch County / GDOT District 5 - Jesup
Bridge Replacement - CR 927/Old Hwy 46 @ Ash Branch 11.6 MI SE of Brooklet

FROM: *Dane Peters*
for R. Christopher Rudd, PE, State Design Policy Engineer

TO: SEE DISTRIBUTION

SUBJECT: APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

Distribution:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3
Albert Shelby, Director of Program Delivery
Carol Comer, Director, Division of Intermodal
Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator
Matthew Markham, Deputy Director of Planning
Kim Nesbitt, Program Delivery Administrator
Bobby Hilliard, Program Control Administrator
Eric Duff, State Environmental Administrator
Donn Digamon, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Erik Rohde, State Project Review Engineer
Monica Flournoy, State Materials Engineer
Patrick Allen, State Utilities Engineer
Eric Conklin, State Transportation Data Administrator
Attn: Systems & Classification Branch
Benny Walden, Statewide Location Bureau Chief
Robert McCall, District Engineer
Troy Pittman, District Preconstruction Engineer
Dallory Rozier, District Utilities Engineer
Joshua Pisani, Project Manager
BOARD MEMBER - 12th Congressional District


Limited Scope Project Concept Report

Project Type:	Bridge Replacement	P.I. Number:	0015605
GDOT District:	5	County:	Bulloch
Federal Route Number:	N/A	State Route Number:	N/A
Project Number:	N/A		

CR 927/OLD HWY 46@ASH BRANCH 11.6 MI SE OF BROOKLET: This project proposes to replace the bridge on CR 927 (Old Highway 46) over Ash Branch in Bulloch County, approximately 11.6 miles southeast of Brooklet, Georgia.

Submitted for approval:

** Concept Report updated 11/13/2020*


Janet Middleton, P.E., Arcadis

9/16/2020

Date

9/25/2020

State Program Delivery Administrator

Joshua Pisani, GDOT Project Manager

Date

09-23-2020

Date

Recommendation for approval:

** Recommendations are on file ~ OB*

** Eric Duff*

State Environmental Administrator

11/09/20

Date

** Chris Raymond*

for State Traffic Engineer

10/19/20

Date

** Donn Digamon*

State Bridge Engineer

10/16/20

Date

** Robert McCall*

District Engineer

10/20/20

Date

- ☐ MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).
- ☒ Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).



State Transportation Planning Administrator

10/19/2020

Date

Approval:

Concur:



GDOT Director of Engineering

12/9/2020

Date

Approve:

GDOT Chief Engineer

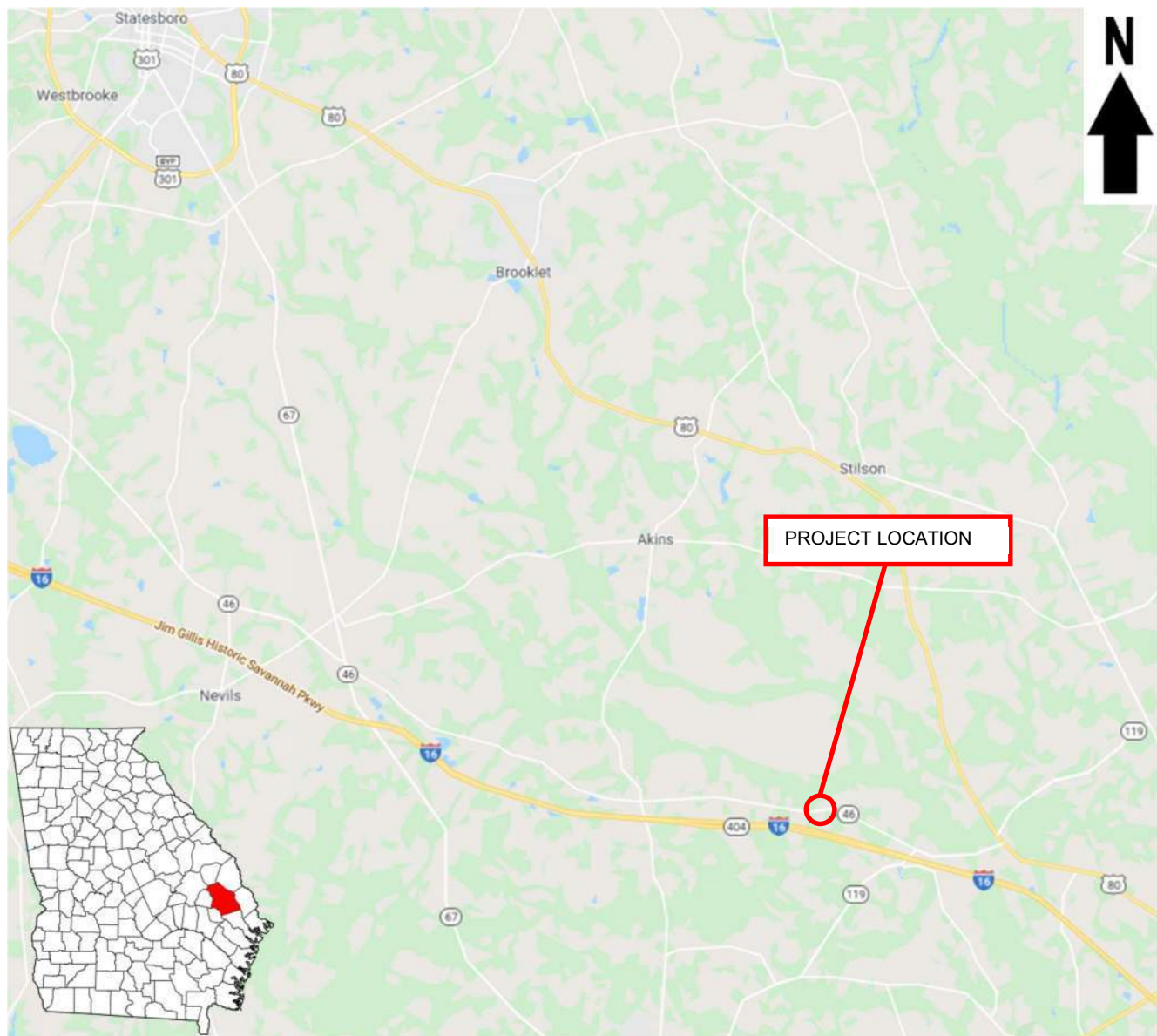
12/16/2020

Date

** Recommendations were also received from the following: ~ OB*

- * Office of Engineering Services: Erik Rohde (11/10/20)*
- * Office of Utilities: Marcela Coll (10/05/20)*
- * Office of Intermodal: Alan C. Hood (10/16/20)*
- * District 5 Preconstruction Engineer: Troy Pittman (10/20/20)*
- * Office of Planning: Tom McQueen (10/16/20)*

PROJECT LOCATION MAP



CR 927/OLD HWY 46@ASH BRANCH 11.6 MI SE OF BROOKLET
PI# 0015605
BULLOCH COUNTY

PLANNING & BACKGROUND DATA

Prepared By: GDOT Bridge Office **Date:** 11/29/2018

Project Justification Statement: The bridge on County Route 927 (Old Highway 46) over Ash Branch, Structure ID 031-0017-0 was built in 1956. The bridge consists of four steel spans on concrete caps with steel piles. The bridge was designed using an HS-20 vehicle; however, it is not meeting current standards. The deck is in satisfactory condition with transverse cracking reaching the bottom of the deck as well as evidence of the deck joints leaking. Also, spalling has been identified on some edge beams located in span 2 and 3 as well as the edge of the deck near the joints. The superstructure is in good condition with minor corrosion on all beams. There is also evidence of horizontal cracking and spalling in all end diaphragms between all beams. The substructure is in fair condition with vertical cracking on abutments. In addition, there are exposed piles due to encasement beginning to honeycomb and crumble. The exposure has caused rusting and section loss under the encasement. Scour is also evident. Due to the age of the structure, not meeting current design standards, and condition of the substructure, replacement of this bridge is recommended.

Existing conditions: The existing 108-ft length bridge is composed of steel and concrete and has a deck width of 34.1-ft with two 11-ft lanes and concrete handrails along both sides. CR 927/Old Highway 46 is a two lane, 22-ft wide rural major collector running parallel to a portion of I-16 surrounded mostly by undeveloped woodlands and farmland. There are multiple residences along the roadway. The project is located approximately 11.6 miles southeast of the City of Brooklet.

Other projects in the area:

1. M0005870 – I-16 FROM SR 67/BULLOCH TO SR 17 CONN/CHATHAM
 - a. Project Description: This project, selected by the State Maintenance Office, is the resurfacing of SR 404 (I-16) to improve the current paces rating.
 - b. LET Date: 8-21-2020
2. PI 0016650 - CR 151/ARCOLA ROAD @ UPPER BLACK CREEK
 - a. Project Description: The proposed project will replace the existing bridge of Arcola Road at Upper Black Creek in Bulloch County. The new bridge will be constructed on the existing alignment and an offsite detour will be implemented during construction. The total length of the project is approximately 0.14 miles.
 - b. LET Date: 6-19-2020
3. PI 0013803 – SR 26 OVER CANEY BRANCH
 - a. Project Description: This project is located on State Route 26 (US 80) over Caney Branch in Bulloch County, 13 miles southeast of Brooklet, Georgia. Proposed is a new quadruple concrete bridge culvert over Caney Branch that will be constructed at the current location, elevation, and roadway centerline using a 55mph design speed. The total length of the project is approximately 525 feet (0.099 miles). During construction, an off-site detour will be utilized to route traffic to SR 119C. The total detour route distance is 11.8 miles.
 - b. LET Date: 2-21-2020

MPO: N/A - not in an MPO **TIP #:** N/A

Congressional District(s): 12

Federal Oversight: ☐ PoDI ☒ Exempt ☐ State Funded ☐ Other

Projected Traffic: 24 HR T: 7.5 % Current Year (2018): 800
Open Year (2023): 850 Design Year (2043): 1050

Date approved by the GDOT Office of Planning: 8/19/2020

AASHTO Functional Classification (Mainline): Major Collector

AASHTO Context Classification (Mainline): Rural

AASHTO Project Type (Mainline): Construction on existing roads

Is the project located on a NHS roadway? ☒ No ☐ Yes

Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants:

Warrants met: ☐ None ☒ Bicycle ☐ Pedestrian ☐ Transit

Standard

1. The project is on a designated state bicycle route:
 - CR 927/OLD HWY 46 – State Bicycle Route 35.
2. There are existing bikeways along the project alignment.
3. There are bicycle travel generators and destinations along project alignments.
4. One bicycle crash occurred in 2017. However, there are no occurrences of reported bicycle crashes which equals or exceeds a rate of five for a 1-mile segment of roadway, over the most recent five years (2015 – 2019).

Guideline

1. The project is not within close proximity of a school, college, university, or major public institution.
2. The project will provide connectivity between two or more existing bikeways or connects to an existing bikeway.
3. This project does not have an occurrence of bicycle crashes.
4. Along the project corridor, there are bicycle travel generators and destinations to be expected prior to the design year of the project.
5. Engineering judgment does indicate a need for bicycle accommodation.

Note: Bicycle warrants are met. 6.5-ft paved shoulders will be provided along the roadway, 6-ft shoulders will be provided on the bridge.

Pavement Evaluation and Recommendations

Initial Pavement Evaluation Summary Report Required? ☒ No ☐ Yes
Feasible Pavement Alternatives: ☒ HMA ☐ PCC ☐ HMA & PCC

Is the project located on a Special Roadway or Network? ☒ No ☐ Yes *Network*

Is the project located on or intersect an RTOP corridor? ☒ No ☐ Yes

Is Federal Aviation Administration coordination anticipated? ☒ No ☐ Yes

DESIGN AND STRUCTURAL

Description of the proposed project: The proposed 130-ft long bridge will consist of one 11-ft lane in each direction with 6-ft shoulders. The roadway approaches will consist of one 11-ft lane in each direction with 10-ft shoulders, 6.5-ft of which will be paved. The proposed bridge will be constructed on the existing alignment.

Major Structures:

Structure	Existing	Proposed
031-0017-0	108-ft length; 34.1-ft deck width; two 11-ft lanes; 2.9-ft shoulders; 4 main spans; steel and concrete	130-ft length; 37.25-ft deck width; two 11-ft lanes; 6-ft shoulders; single span

Accelerated Bridge Construction (ABC) techniques anticipated: ☒ No ☐ Yes

Multiple techniques are applicable to this project, but it is unlikely that they will be utilized due to the small project size and low to moderate concerns from the school district, EMS, and the County on the off-site detour proposed.

Prefabricated Bridge Elements and Systems (PBES): Prefabricated elements could be utilized to facilitate faster construction. However, given that the off-site detour adds 10 additional minutes to four school bus routes and the concerns from the school system were moderate, it is unlikely these elements will be used.

Mainline Design Features:

CR 927/Old Hwy 46		Functional Classification: Major Collector	
Feature	Existing	*Policy	Proposed
Typical Section:			
- Number of Lanes	2		2
- Lane Width(s) (-ft)	11-ft	11-ft	11-ft
- Median Width (-ft) & Type	N/A	N/A	N/A
- Shoulder Width (-ft) (Outside)	Varies 4-ft to 8-ft (unpaved)	4-ft	8-ft (6.5-ft paved)
- Border Area Width (-ft)	N/A	N/A	N/A
- Cross Slope (%)	Unknown	2% (normal)	2%
- Outside Shoulder Slope (%)	Unknown	6%	6%
- Inside Shoulder Width (-ft)	N/A	N/A	N/A
- Sidewalks (-ft)	N/A	N/A	N/A
- Auxiliary Lanes (#lanes/-ft width)	N/A		N/A
- Bike Accommodations	N/A	4-ft	6.5-ft paved shldr 6-ft bridge shldr
Posted Speed (mph)	55		55
Design Speed (mph)	Unknown	55	55
Minimum Horizontal Curve Radius (-ft)	Unknown	960-ft	1900-ft
Maximum Superelevation Rate (%)	Unknown	8% (EMax)	5%
Maximum Grade (%)	Unknown	6% (Level)	0.820% (level)
Access Control	Non-restrictive		Non-restrictive
Design Vehicle	HS-20		SU
Check Vehicle	Unknown		OSOW
Pavement Type	HMA		HMA

*According to current AASHTO Design Policy if applicable

Design Exceptions/Design Variances to FHWA or GDOT Controlling Criteria anticipated: N/A

Design Variances to GDOT Standard Criteria anticipated: N/A

Lighting Required: ☒ No ☐ Yes

Off-site Detours Anticipated: ☐ No ☐ Undetermined ☒ Yes

See attachment 6 for detour plans.

If yes: Roadway type to be closed: ☒ Local Road ☐ State Route
 Detour Route selected: ☐ Local Road ☒ State Route
 District Concurrence w/Detour Route: ☐ No/Pending ☒ Received 2020-08-04

Transportation Management Plan [TMP] Required: ☐ No ☒ Yes

If Yes: Project classified as: ☒ Non-Significant

TMP Components Anticipated: ☒ TTC

INTERCHANGES AND INTERSECTIONS

Interchanges/Major Intersections: N/A

Intersection Control Evaluation (ICE) Required: ☒ No ☐ Yes

Roundabout Concept Validation Required: ☒ No ☐ Yes ☐ Completed Date

UTILITY AND PROPERTY

Railroad Involvement: N/A

Utility Involvements:

- Georgia Power
- Bulloch Telephone

SUE Required: ☒ No ☐ Yes

Public Interest Determination Policy and Procedure recommended: ☒ No ☐ Yes

Right-of-Way (ROW): Existing width: Varies 100-200 ft. Proposed width: Varies 100-200 ft.

Required Right-of-Way anticipated: ☐ None ☒ Yes ☐ Undetermined

Easements anticipated: ☒ None ☐ Temporary ☐ Permanent * ☐ Utility ☐ Other

* Permanent easements include the right to place utilities.

Anticipated total number of impacted parcels:		4
Displacements anticipated:	Businesses:	0
	Residences:	0
	Other:	0
Total Displacements:		0

Location and Design approval: ☐ Not Required ☒ Required

Impacts to USACE property anticipated: ☒ No ☐ Yes ☐ Undetermined

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document: *NEPA ~ PCE*

Level of Environmental Analysis:

- ☒ The environmental considerations noted below are based on preliminary desktop or screening level environmental analysis and are subject to revision after the completion of resource identification, delineation, and agency concurrence.
- ☐ The environmental considerations noted below are based on the completion of resource identification, delineation, and agency concurrence.

MS4 Permit Compliance – Is the project located in a MS4 area? ☒ No ☐ Yes

If yes, is the GDOT MS4 Permit anticipated to apply to all or part of this project? ☐ No ☐ Yes
Is Non-MS4 water quality mitigation anticipated? ☒ No ☐ Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated:

Air Quality:

Is the project located in an Ozone Non-attainment area? ☒ No ☐ Yes
Is a Carbon Monoxide hotspot analysis required? ☒ No ☐ Yes

This project is for a bridge replacement. No changes are proposed to the number of through lanes. Due to the project type being a bridge replacement, a CO hotspot analysis is not required. An ozone analysis would not be required as the project does not occur within a non-attainment county. An air quality screening would be required.

NEPA/GEPA Comments & Information: A Programmatic Categorical Exclusion (PCE) environmental document is anticipated for this project. One parcel with structures or buildings 50 years or older was identified during desktop review. There is a potential for Section 4(f) analysis if adverse impacts are anticipated to NRHP-eligible resources. Suitable habitat for federal protected species anticipated. Further coordination with design will need to take place before finalizing environmental recommendations and commitments. A 404 permit is anticipated for the proposed project. Full delineations of archaeological, history, and ecological resources would be required.

Ecology: A list of state and federally protected species was obtained using the Bulloch County IPAC and the DNR Rare Natural Elements lists. Protected species indicated on one or both of these lists include four federally protected species (eastern indigo snake [*Drymarchon corais couperi*], gopher tortoise [*Gopherus polyphemus*], Florida panther [*Puma concolor coryi*], and striped newt [*Notophthalmus perstriatus*]) and sixteen state-protected species (Atlantic pigtoe [*Fusconaia masoni*], bald eagle [*Haliaeetus leucocephalus*], mimic glass lizard [*Ophisaurus mimicus*], robust redhorse [*Moxostoma robustum*], southern hognose snake [*Heterodon simus*], spotted turtle [*Clemmys guttata*], swallowtailed kite [*Elanoides forficatus*], Georgia indigo bush [*Amorpha georgiana*], Georgia plume [*Elliottia racemose*], greenfly orchid [*Epidendrum magnolia*], hooded pitcherplant [*Sarracenia minor*], parrot pitcherplant [*Sarracenia psittacina*], purple honeycomb head [*Balduina atropurpurea*], sandhill milkvetch [*Astragalus michauxii*], silky camelia [*Stewartia malacodendron*], and yellow flytrap [*Sarracenia flava*]). No occurrences of protected species are noted in the DNR Early Coordination letter. Suitable habitat for eastern indigo snake, gopher tortoise, and striped newt is anticipated. Informal Section 7 consultation anticipated. Streams and wetlands were noted from desktop review of NWI and NHD maps and confirmed to occur during a site visit on 8/10/2017. There is a large wetland system along both sides of the road at the project site. A Section 404 Permit would be required for impacts associated with the replacement of the existing structure. A buffer variance from the GA Department of Natural Resources- Environmental Protection Division (EPD) may be required. All protected species habitat and water resources should be field verified.

Stream buffer variance is anticipated due to the impacts to the ephemeral channel.

History: A desktop review for historic resources, comprised of buildings, structures, sites, and objects constructed before 1968, was conducted within an environmental survey boundary (ESB) and corresponding viewshed from the furthest extent of the ESB. The ESB extends 1,000 feet from either end of bridge serial number 031-0017-0 and is 600 feet wide. This review included the Bulloch County tax assessor's record, 2012 Georgia Historic Bridge Survey (GHBS), National Historic Landmarks (NHL), National Register of Historic Places (NRHP), and Georgia's Historical Marker program. No properties listed or nominated for listing in the NRHP or NHL were identified within the proposed project's ESB. According to the GHBS form, the bridge was built in 1956 and is not considered eligible for the NRHP. Furthermore, no historical markers were identified within the ESB. The Georgia Department of Natural Resources (DNR) 1981 Bulloch County survey was also consulted via a review of Georgia's Natural, Archaeological, and Historic Resources Geographical Information Services (GNAHRGIS) database. No GNAHRGIS sites were identified within the ESB. The review of the Bulloch County tax assessor's record resulted in the identification of one (1) parcel (177 000030 000) with buildings or structures 50 years old or older that would require field assessment and evaluation for NRHP eligibility.

Archaeology: No cemeteries or publicly documented sites are located in or adjacent to the project area. According to GNAHRGIS, the general vicinity of the project area has a low potential for archaeological sites. A search of the Georgia Archaeological Site Files was not conducted, so it is possible that previously recorded sites are located in or near the project area. A Phase I archaeological survey is required to investigate the area and assess affects to any sites that might exist there.

Public Involvement: Public Detour Open House (PDOH) and public outreach anticipated to inform the public about the bridge closure and use of an off-site detour. Major stakeholders consist of private individuals with property adjoining the project, local businesses, and local and through traffic.

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Constructability/Construction: No early completion incentives are recommended.

Project Meetings: Concept Team Meeting held 6/12/2020, Avoidance & Minimization Measures Meeting (A3M) held 8/21/2020, PDOH anticipated Fall 2020.

Other coordination to date: Detour early coordination letters were sent to Bulloch County Board of Commissioners, Bulloch County EMS, and Bulloch County Schools in August 2018. Early coordination letters were also sent to the USFWS and the DNR.

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Arcadis/GDOT
Design	Arcadis
Right-of-Way Acquisition	GDOT
Utility Coordination (Preconstruction)	GDOT
Utility Relocation (Construction)	Utility Owners/Company
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	GDOT
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Project Cost Estimate Summary and Funding Responsibilities:						
	PE Activities		ROW	Reimbursable Utilities	CST*	Total Cost
	PE Funding	Section 404 Mitigation				
Date of Estimate:		7/31/2020	6/15/2020	8/10/2020	10/27/2020	
Funded By:	Federal / State		Local / Federal / State	Federal / State	Federal / State	
Programmed Cost:	\$500,000		\$158,000	\$50,000	\$1,500,000	\$2,208,000
Estimated Cost:	\$500,000	\$126,000	**\$114,000	\$90,000	\$2,159,407	\$2,989,407
Total Cost Difference:						\$781,407

*CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

**Submitted to GDOT for review on 9/2/2020.

ALTERNATIVES DISCUSSION

Alternative selection:

Preferred Alternative: Replace the bridge on the existing alignment and utilize an off-site detour.			
Estimated Property Impacts:	4	Estimated Total Cost:	\$2,989,407
Estimated ROW Cost:	\$114,000	Estimated CST Time:	12 Months
Rationale: This alternative would replace the existing bridge in-place and detour traffic off-site. The 5.7-mile detour would require vehicles to travel on local roads with equal or greater functional capacity and I-16. From Arcola Road and Old Highway 46 to SR119 and Old Highway 46, the distance is 5.5 miles, so the detour adds an additional 0.2 miles to the traveling public. If I-16 is not utilized for the off-site detour, local traffic would have a longer detour length if they use local roads. The District Preconstruction Engineer concurs with the local offsite detour route presented. Coordination with the school board, EMS and County officials for input on the detour alternative was initiated; the school board and County are in support of the bridge replacement utilizing an off-site detour. The school board did indicate that 4 routes would be impacted. The bridge is currently posted for a 10 tons weight limit and may not be suitable to carry bus traffic, depending on the school bus configuration. EMS indicated a low impact response to the off-site detour. There are no substandard or load posted bridges on the detour route suggested. No institutions (schools, churches, etc.) will be impacted near the roadway/bridge closure. This alternative was chosen because it will have a smaller footprint, requiring less right of way acquisition and minimizes environmental and utility impacts.			

No-Build Alternative: Retain the existing bridge.			
Estimated Property Impacts:	0	Estimated Total Cost:	\$0
Estimated ROW Cost:	\$0	Estimated CST Time:	N/A
Rationale: Due to the age of the structure, not meeting current design standards, and condition of the substructure, this alternative is not preferred.			

Alternative 1: Replace the bridge on offset alignment and utilize an on-site detour. The shift in bridge alignment would remove Superelevation on bridge.			
Estimated Property Impacts:	4	Estimated Total Cost:	\$3,282,956
Estimated ROW Cost:	\$114,000	Estimated CST Time:	12 Months
Rationale: This alignment would shift the existing alignment to the north. However, this Alternative will require construction temporary easement acquisition and right of way. Shifting the bridge to the north will allow the bridge alignment to be on a tangent section and curves, with an SE rate of 6%, would begin/end before the bridge deck. This allows the bridge to keep a normal crown (2%). This option would allow for an on-site detour. Partial demolition of the existing bridge would reduce the structure to one-lane, two-way traffic. A temporary signal would be needed for one-lane one-way traffic at a time. This alternative would increase the cost of the project. This creates maintenance issues due to the longitudinal bridge joint on the structure. County resources to maintain it may not be available.			

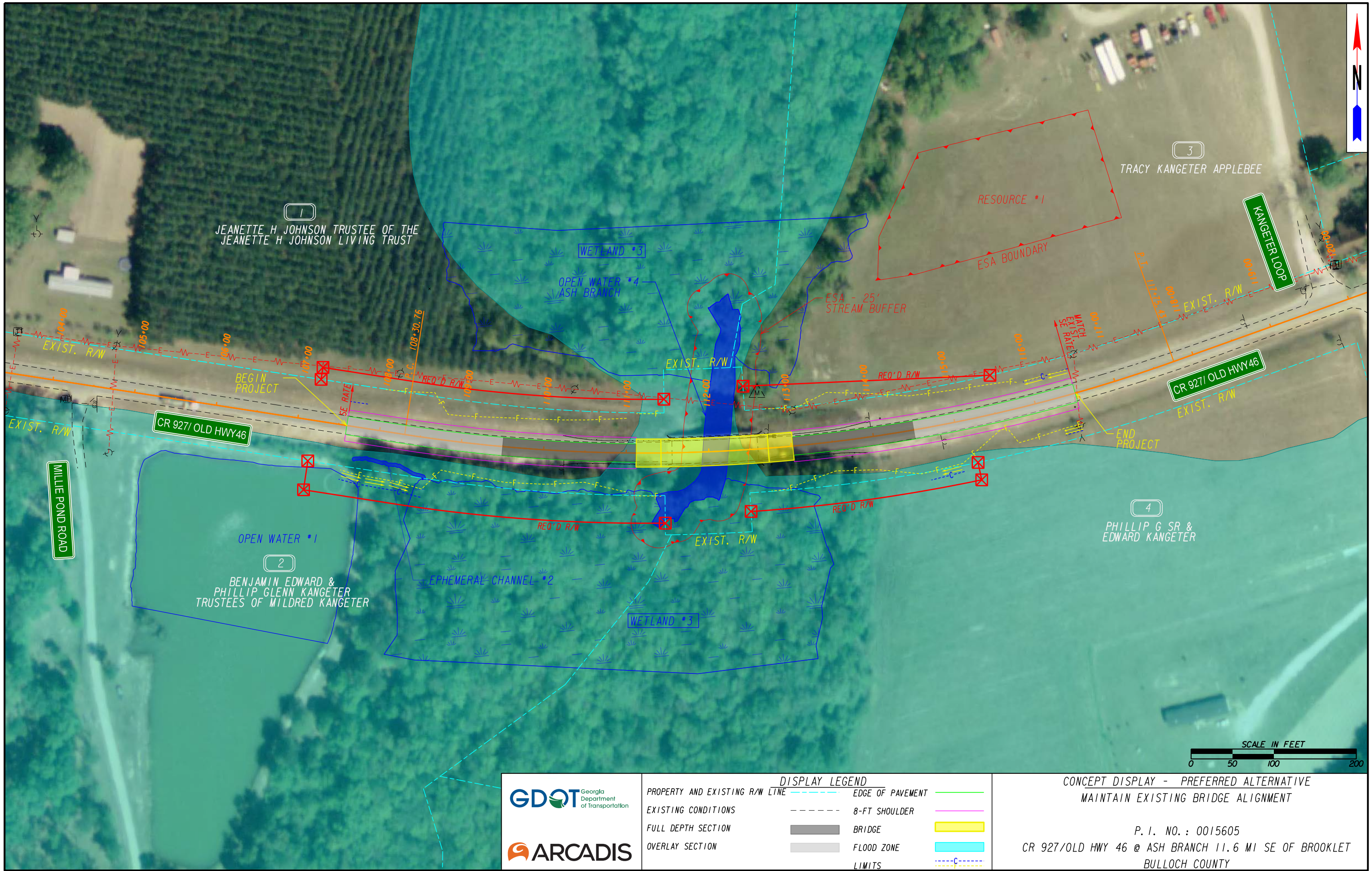
Comments: On-Site Detour

Shifting the bridge alignment further north, outside of existing right-of-way and keeping the existing bridge open during construction would eliminate the need for an off-site detour. However, the new alignment would impact additional environmental resources, adjacent residential property, local utilities, and require temporary construction easement acquisition, extend the project limits and increase the cost of the overall project.

LIST OF ATTACHMENTS/SUPPORTING DATA

1. Concept Layout and Typical Sections
2. Detailed Cost Estimates:
 - a. Revisions to Programmed Costs forms, & Liquid AC Cost Adjustment forms
 - b. AASHTOWare Detailed Cost Estimate for Construction
 - c. Right-of-Way Preliminary Cost Estimate Summary

- d. Mitigation Cost Estimate
 - e. Preliminary Utility Cost Estimate
- 3. Concept Utility Report
- 4. Traffic Memo Summary & Approval
- 5. Existing Bridge S I & A Report
- 6. MS4 Concept Report Summary
 - a. MS4 Concept Report Summary
- 7. Minutes – Concept Team Meeting
- 8. Minutes – A3M
- 9. Detour Plan / District Concurrence of detour



GDOT Georgia Department of Transportation

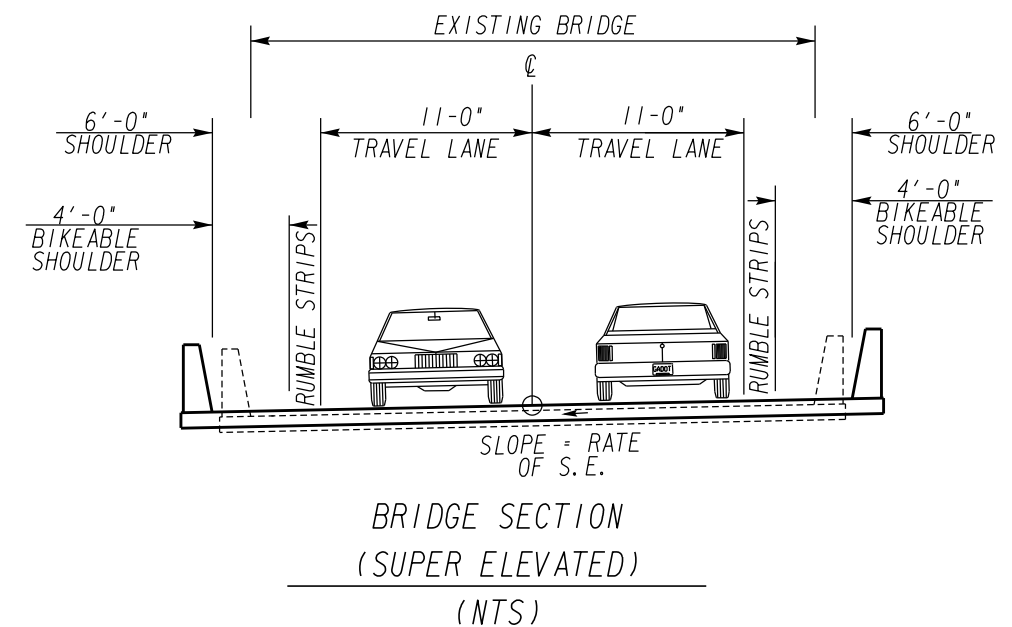
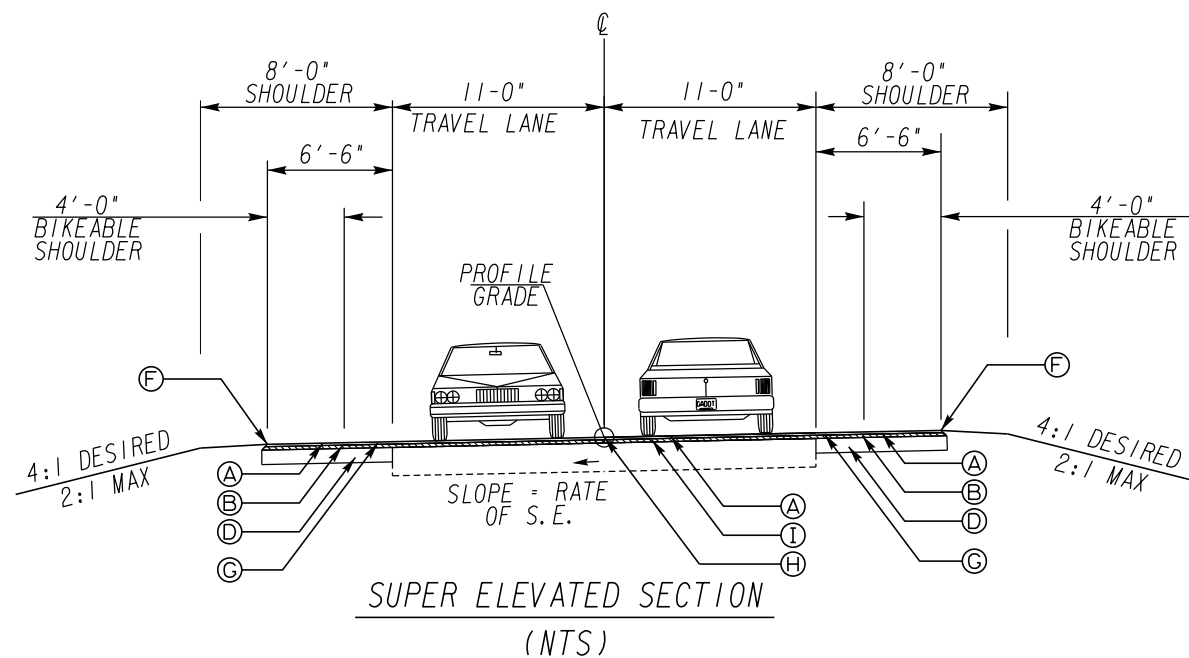
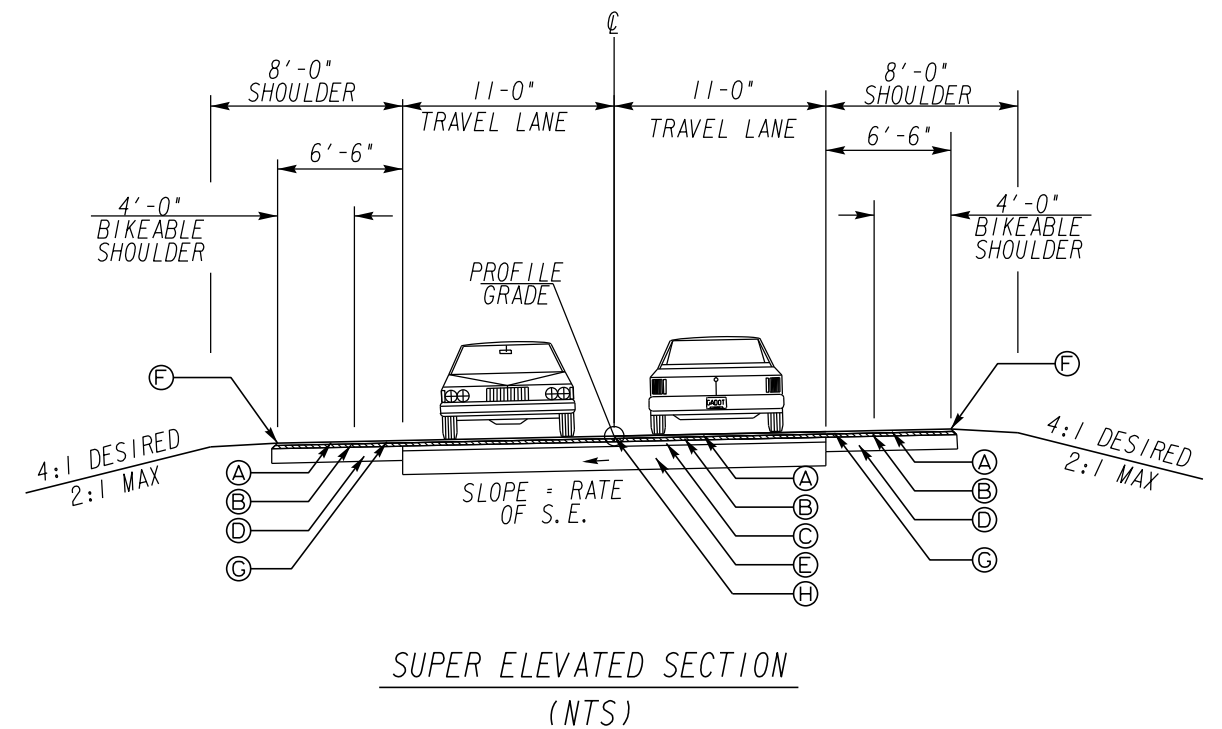
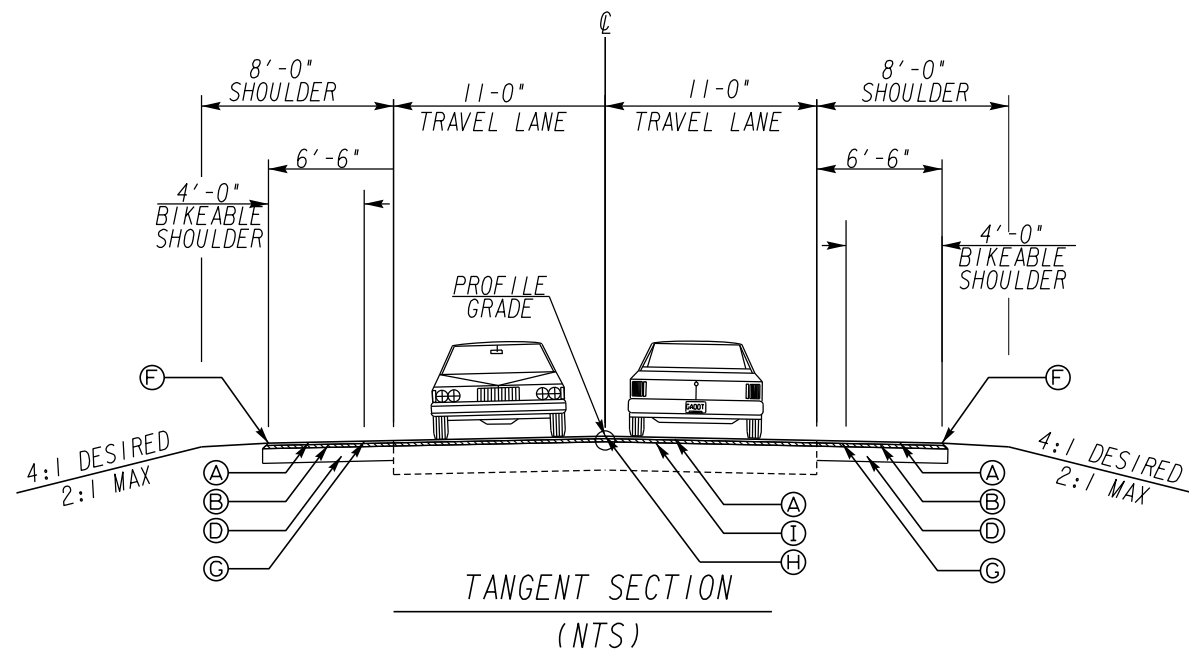
ARCADIS

DISPLAY LEGEND

PROPERTY AND EXISTING R/W LINE	EDGE OF PAVEMENT
EXISTING CONDITIONS	8-FT SHOULDER
FULL DEPTH SECTION	BRIDGE
OVERLAY SECTION	FLOOD ZONE
	LIMITS

CONCEPT DISPLAY - PREFERRED ALTERNATIVE
MAINTAIN EXISTING BRIDGE ALIGNMENT

P.I. NO. : 0015605
CR 927/OLD HWY 46 @ ASH BRANCH 11.6 MI SE OF BROOKLET
BULLOCH COUNTY



PAVEMENT INDEX

- (A) RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE 11, GROUP 2 ONLY, INCL BITUM MATL & H LIME (135 LBS/SY)
- (B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LBS/SY)
- (C) RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (330 LBS/SY)
- (D) GRADED AGGREGATE BASE COURSE, 6 INCH, INCL MATL
- (E) GRADED AGGREGATE BASE COURSE, 8 INCH, INCL MATL
- (F) ASPHALT PAVEMENT EDGE TREATMENT, GA CONSTRUCTION DETAIL P-7
- (G) SKIP SHOULDER INDENTATION RUMBLE STRIPS PER GA CONSTRUCTION DETAILS T-23B AND T-25
- (H) CONTINUOUS CENTERLINE INDENTATION RUMBLE STRIPS PER GA CONSTRUCTION DETAIL T-24
- (I) RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME

GDOT Georgia Department of Transportation

ARCADIS

CONCEPT TYPICAL SECTIONS - (PREFERRED) ALTERNATIVE
MAINTAIN EXISTING BRIDGE ALIGNMENT

P.I. NO.: 0015605
CR 927/OLD HWY 46 @ ASH BRANCH 11.6 MI SE OF BROOKLET
BULLOCH COUNTY

Interoffice Memo

FILE

PI NUMBER	0015605	PROJECT DESCRIPTION	This project is a bridge replacement located at County Road 927 / Old Highway 46 at Ash Branch, approximately 11.6 miles Southeast of Brooklet.
OFFICE	Program Delivery		
DATE	Tuesday, October 27, 2020		

From: Kimberly Nesbitt, State Program Delivery Administrator

To: Erik Rohde, P.E., State Project Review Engineer
via email Mailbox: CostEstimatesandUpdates@dot.ga.gov

Subject: REVISIONS TO PROGRAMMED COSTS

Project Manager:	Joshua Pisani
Management Let Date:	4/15/2022
Management Right of Way Date:	5/15/2021

Cost Estimate Review Iteration

Date of Submittal #1	
Date of Submittal #2	
Date of Submittal #3	

Summary of Programmed Costs and Proposed Revised Costs:

Estimate Type	Cost Estimate Amounts (T-Pro Without Inflation)	Last Estimate Date	Revised Cost Estimate
CONSTRUCTION	\$1,500,000.00		\$2,159,406.50
RIGHT OF WAY	\$158,000.00		\$114,000.00
UTILITIES	\$50,000.00		\$90,000.00

Explanation for Cost Change and Contingency Justification:


Concept development

Attachments:

AASHTOWare Cost Estimate
Right of Way Cost Estimate Summary
Preliminary Utility Estimate
Preconstruction Status Report

Interoffice Memo

Design Phase Leader Validation of Final QC/QA for Construction Cost Estimate Used In This Revision to Programmed Costs:

Consultant Company or GDOT Design Office:	Arcadis U.S. Inc.,
Printed Name:	Janet Middleton
Title:	Roadway Design Lead
Signature:	
Date:	10/27/2020

FOR PROJECTS WITH A LOCAL SPONSOR	
If the project has a local sponsor, the project manager should ensure that the local authority completes the following validation indicating that it has reviewed the construction cost estimate and whether it is in concurrence with the construction costs presented.	
Please select the appropriate validation below upon review of the cost estimate:	
<input type="checkbox"/> I acknowledge that I have reviewed the project construction cost estimate and <u>concur</u> with the costs presented.	
<input type="checkbox"/> I acknowledge that I have reviewed the project construction cost estimate but <u>do not concur</u> with the costs presented.	
Please provide an explanation for non-concurrence.	
Local Authority Name and Title:	
Local Authority Signature:	
Date:	

[illegible]

Cost Estimate Budget Class Report

Report v1

Cost Estimate: 0015605 - 0015605**Cost Estimation Phase:** 2-DE**Cost Estimate Item Total:** \$1,780,010.99

Cost Estimate Budget Class Report - Estimate Level Details

Budget Class	Amount	Assignment Level
	\$1,780,010.99	Cost Estimate

Cost Estimate Budget Class Report

Report v1

Cost Estimate Budget Class Report - Item Level Details

Budget Class	Line Number	Item	Item Description	Quantity	Unit	Amount
	5	150-1000	TRAFFIC CONTROL -	1.000	LS	\$110,000.00
	10	210-0100	GRADING COMPLETE -	1.000	LS	\$410,000.00
	15	310-5060	GR AGGR BASE CRS, 6 INCH, INCL MATL	782.000	SY	\$19,815.88
	20	310-5080	GR AGGR BASE CRS, 8 INCH, INCL MATL	871.000	SY	\$26,521.95
	25	402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	25.000	TN	\$3,728.50
	30	402-3102	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, BLEND 1, INCL BITUM MATL & H LIME	148.000	TN	\$16,208.06
	35	402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	144.000	TN	\$15,603.90
	40	402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME	455.000	TN	\$44,650.14
	45	413-0750	TACK COAT	248.000	GL	\$601.31
	50	432-5010	MILL ASPH CONC PVMT, VARIABLE DEPTH	453.000	SY	\$3,752.29
	55	433-1200	REINF CONC APPROACH SLAB, INCL SLOPED EDGE	244.000	SY	\$51,153.46
	60	456-2022	INDENTATION EDGE LINE RUMBLE STRIPS-GROUND IN PLACE (SKIP)	0.460	GLM	\$2,437.87
	65	456-2025	INDENTATION CENTERLINE RUMBLE STRIPS-GROUND IN PLACE (CONTINUOUS)	0.230	GLM	\$5,585.50
	70	641-1100	GUARDRAIL, TP T	84.000	LF	\$6,313.93
	75	641-1200	GUARDRAIL, TP W	600.000	LF	\$12,301.06

Cost Estimate Budget Class Report

Report v1

Cost Estimate Budget Class Report - Item Level Details

Budget Class	Line Number	Item	Item Description	Quantity	Unit	Amount
	80	641-5001	GUARDRAIL ANCHORAGE, TP 1	2.000	EA	\$2,612.51
	85	641-5015	GUARDRAIL TERMINAL, TP 12A, 31 IN, TANGENT, ENERGY- ABSORBING	2.000	EA	\$5,856.72
	90	543-9000	CONSTRUCTION OF BRIDGE COMPLETE -	1.000	LS	\$726,375.00
	95	540-1101	REMOVAL OF EXISTING BR, STA NO -	1.000	LS	\$165,726.00
	100	441-0301	CONC SPILLWAY, TP 1	2.000	EA	\$5,466.64
	105	576-1018	SLOPE DRAIN PIPE, 18 IN	50.000	LF	\$2,654.91
	110	603-2024	STN DUMPED RIP RAP, TP 1, 24 IN	769.000	SY	\$53,995.61
	115	603-7000	PLASTIC FILTER FABRIC	769.000	SY	\$3,418.10
	120	634-1200	RIGHT OF WAY MARKERS	11.000	EA	\$1,603.89
	125	163-0232	TEMPORARY GRASSING	1.000	AC	\$928.16
	130	163-0240	MULCH	24.000	TN	\$4,795.74
	135	163-0301	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	2.000	EA	\$4,000.00
	140	163-0520	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	100.000	LF	\$1,865.02
	145	163-0529	CONSTRUCT AND REMOVE TEMPORARY SEDIMENT BARRIER OR BALED STRAW CHECK DAM	1,700.000	LF	\$6,510.58
	150	163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	2.000	EA	\$599.37
	155	165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	1,700.000	LF	\$2,283.64
	160	165-0071	MAINTENANCE OF SEDIMENT BARRIER - BALED STRAW	850.000	LF	\$1,059.52

Cost Estimate Budget Class Report

Report v1

Cost Estimate Budget Class Report - Item Level Details

Budget Class	Line Number	Item	Item Description	Quantity	Unit	Amount
	165	165-0101	MAINTENANCE OF CONSTRUCTION EXIT	2.000	EA	\$1,169.50
	170	165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	2.000	EA	\$161.79
	175	167-1000	WATER QUALITY MONITORING AND SAMPLING	2.000	EA	\$1,105.19
	180	167-1500	WATER QUALITY INSPECTIONS	12.000	MO	\$8,019.95
	185	171-0030	TEMPORARY SILT FENCE, TYPE C	3,400.000	LF	\$14,476.86
	190	643-8200	BARRIER FENCE (ORANGE), 4 FT	1,586.000	LF	\$3,363.62
	195	700-6910	PERMANENT GRASSING	2.000	AC	\$5,167.92
	200	700-7000	AGRICULTURAL LIME	4.000	TN	\$477.53
	205	700-8000	FERTILIZER MIXED GRADE	2.000	TN	\$1,345.37
	210	700-8100	FERTILIZER NITROGEN CONTENT	83.000	LB	\$341.78
	215	713-3002	WOOD FIBER BLANKET, TP II, SLOPES	7,577.000	SY	\$13,364.31
	220	636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	39.000	SF	\$779.45
	225	636-2070	GALV STEEL POSTS, TP 7	122.000	LF	\$1,169.01
	230	653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	1,082.000	LF	\$1,883.49
	235	653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	1,082.000	LF	\$1,663.20
	240	654-1001	RAISED PVMT MARKERS TP 1	60.000	EA	\$529.36
	245	657-1085	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-WHITE), TP PB	388.000	LF	\$3,283.70

Cost Estimate Budget Class Report

Report v1

Cost Estimate Budget Class Report - Item Level Details

Budget Class	Line Number	Item	Item Description	Quantity	Unit	Amount
	250	657-1085	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-WHITE), TP PB	388.000	LF	\$3,283.70

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 6/15/2020
Revised: N/A

Project: Old Hwy 46 at Ash Branch
County: Bulloch
PI: 0015605

Description: Bridge Replacement
Project Termini: Old Hwy 46 at Ash Branch

Existing ROW: Varies

Parcels: 4

Required ROW: Varies

Land and Improvements \$8,145.00

Proximity Damage \$0.00

Consequential Damage \$0.00

Cost to Cures \$0.00

Trade Fixtures \$0.00

Improvements \$0.00

Valuation Services \$17,500.00

Legal Services \$40,200.00

Relocation \$12,000.00

Demolition \$0.00

Administrative \$35,500.00

TOTAL ESTIMATED COSTS \$113,345.00

TOTAL ESTIMATED COSTS (ROUNDED) \$114,000.00

Prepared By:

John Albrycht

Print Name

John Albrycht
Signature

6/15/2020

Date

Cost Estimation Supervisor :

Print Name

Signature

Date

NOTE: Supervisor is only attesting that the estimate was completed using the correct information provided for the the project. The Supervisor is not attesting to property values or the accuracy of the market value estimations provided in this report. No Market Appreciation is included in this Preliminary Cost Estimate.

Comments:

*Note - ROW Cost developed by design team and submitted to GDOT 9/2/2020.

Middleton, Janet

Subject: FW: PI 0015605, Bulloch County - Estimated Mitigation Cost for Concept Report

From: Westberry, Lisa <lwestberry@dot.ga.gov>

Sent: Friday, July 31, 2020 4:10 PM

To: Pisani, Joshua <JPisani@dot.ga.gov>

Cc: Pecot, Patrick <Patrick.Pecot@arcadis.com>

Subject: PI 0015605, Bulloch County - Estimated Mitigation Cost for Concept Report

As requested, the estimated mitigation cost for the subject project is **\$126,000.00**. This estimate is based on preliminary field surveys within the environmental survey boundary for the project. Final mitigation credit costs will not be known until lockdown plans are available.

If you should have any questions or need any additional information, please do not hesitate to contact me.

Respectfully,

Lisa Westberry

Special Projects Coordinator



Office of Environmental Services
One Georgia Center, 16th Floor
600 West Peachtree Street, NW
Atlanta, GA, 30308
404.631.1772

You take every precaution - wash your hands, social distance, wear a mask. So, if you must drive, consider this ... higher speeds make for more serious crashes. To decrease the odds of a serious crash increase the distance between you and the vehicle in front of you. And slow down to the posted speed limit. Drive Alert Arrive Alive, Georgia.



Interoffice Memo

FILE Project No: n/a Office: District 5, Jesup
County Bulloch Date: August 10, 2020
P.I.# 0015605

Description: CR 927/ Old Hwy 46 @ Ash Branch 11.6 Mi SE of Brooklet

FROM Dallery Rozier, District Utilities Manager

TO Joseph Pisani, Project Manager

SUBJECT PRELIMINARY UTILITY COST ESTIMATE

A review of utilities located on the above referenced project has been conducted with Concept Layout plans. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

<u>Utility Owner</u>	<u>Reimbursable</u>	<u>Non-Reimbursable</u>	<u>Estimate Based on</u>
Georgia Power Company- Dist	\$90,000.00	\$0.00	Site Visit / Available Drawings
Bulloch Tel	\$0.00	\$36,000.00	Site Visit / Available Drawings
Total 100.00%	\$90,000.00	\$36,000.00	
Department Responsibility 100.00%	\$90,000.00		
Utility Owner Responsibility 100.00%	\$0.00	\$36,000.00	

** Indicates Potential Utility Aid Request from Local Gov't

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact John Royal at jroyal@dot.ga.gov.

cc: Patrick Allen, P.E., State Utilities Administrator
Shajan Joseph, P.E., Assistant State Utilities Administrator
Marcela Coll, Utilities Preconstruction Manager
David Woodcox, Utilities Preconstruction Specialist
Danah Bonny, Utilities Preconstruction Specialist

Concept Utility Report

Project Number: [Click here to enter text.](#)

District: 5

County: Bulloch

Prepared by: John Royal

P.I. # 0015605

Date: June 23, 2020

Project Description: CR 927/Old Hwy 46 @ Ash Branch 11.6 Mi SE of Brooklet

The information provided herein has been gathered from Georgia811and/or field visits and serves as an estimate. Nothing contained in this report is to be used as a substitute for 1st Submission or SUE.

Are SUE services recommended? No

Level: ☐A ☐B ☐C ☐D

Public Interest Determination (PID):

☐Automatic ☐Mandatory ☐Consideration ☒No Use ☐Exempt

Is a separate utility funding phase recommended? No

Potential Project (Schedule/Budget) Impacts: [Click here to enter text.](#)

Capital Improvement Projects (Utilities) Anticipated in the Area: [Click here to enter text.](#)

Project Specific Recommendations for Avoidance/Mitigation: [Click here to enter text.](#)

Right of Way Coordination: Pending

Environmental Coordination: [Click here to enter text.](#)

Additional Remarks: [Click here to enter text.](#)

Utilities have facilities within the project limits.

Utilities have been identified using Georgia811 and/or field visits.

Facility Owner	Facility Owner Contact Email Address	Existing Facilities/ Appurtenances	General Description of Location	Facilities to Avoid <i>approx. limits</i>	Facilities Retention Recommended <i>approx. limits</i>	Comments
Bulloch Telephone	jscott@bulloch.solutions	U/G fiber	Both sides of the bridge	Click here to enter text.	Click here to enter text.	Relocate
GPC-D	RDLONG@southernco.com	O/H Power-Distribution	North side of the bridge	Click here to enter text.	Click here to enter text.	Relocate
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.

Note: To add additional rows, click the bottom right corner of the box above, then click the blue + that will appear. Please add additional rows prior to entering text.



Interoffice Memo

FILE: Bulloch County
P.I. # 0015605

DATE: August 19, 2020

FROM: Thomas McQueen, Asst. State Transportation Planning Administrator

TO: Kimberly Nesbitt, State Program Delivery Administrator
Attention: Joshua Pisani

SUBJECT: **Reviewed** Traffic Forecast Report for CR 927/Old Hwy 46 @ Ash
Branch 11.6 Miles SE of Brooklet

Per request, we have reviewed the consultant's design traffic forecast for the above project. Based on the information furnished, we find the design traffic forecast to be satisfactory, and the design traffic forecasting task to be complete for the above project. The reviewed and approved design traffic forecast for the above project is attached.

If you have any questions concerning this information please contact Andre Washington at 404-631-1925.

Keith McCage
HNTB
Design Traffic Consultant to GDOT
404-946-5731

TEM/KAM

Arcadis U.S., Inc. (Arcadis)
2839 Paces Ferry Road, Suite 900
Atlanta, Georgia 30339

MEMORANDUM TO: Joshua Pisani
Georgia Department of Transportation, Office of Program
Delivery

FROM: Patrick Pecot, PE
Arcadis U.S., Inc. (Arcadis)

DATE: July 27th, 2020

SUBJECT: Traffic Assignments for PI#0015605, Bulloch County, CR
927/Old Hwy 46 @ Ash Branch 11.6 mi SE of Brooklet

Company is furnishing Traffic Assignments for the above project as follows:

BRIDGE- ID 031-0017-0

	2018 (Existing Year)	2025 (Base Year)	2027 (Base Year +2)	2045 (Design Year)	2047 (Design Year +2)
AADT	800	850	900	1050	1100
DHV (AM/PM)	75/90	80/95	85/95	100/120	100/125
K% (AM/PM)	9.1%/11.5%	Same as Existing Year			
D% (AM/PM)	60.0%/70.5%				
24 HR. T% - S.U.	5.0%				
24 HR. T% - COMB	2.5%				
24 HR. T% - TOTAL	7.5%				
T% - S.U. (AM/PM)	8.0%/7.5%				
T% - COMB. (AM/PM)	2.5%/2.0%				
T% - TOTAL (AM/PM)	10.5%/9.5%				

If you have any questions concerning this information, please contact me by [email: Patrick.Pecot@arcadis.com](mailto:Patrick.Pecot@arcadis.com) or Kumari Duvvuri, EIT: Sri.Duvvuri@arcadis.com.

Georgia Department of Transportation
Bridge Inventory Data Listing

Processed Date:Aug-15-2019 14:02 PM

Parameters: Bridge Serial Number

Bridge Serial Number: 031-0017-0

County: Bulloch

SUFF. RATING: 38.7

Location & Geography	
Structure ID:	031-0017-0
200 Bridge Information:	06
*6 Feature Intersected:	ASH BRANCH
*7A Route Number Carried:	CR00927
*7B Facility Carried:	FAS 577
9 Location:	11.6 MI SE OF BROOKLET
2 GDOT District:	4841500000 - D5 District Five Jesup
*91 Inspection Frequency:	24 Date: Mar-13-2018
92A Fracture Critical Insp. Freq:	0 Date: Feb-01-1901
92B Underwater Insp Freq:	60 Date: Oct-05-2015
92C Other Spc. Insp Freq:	0 Date: Feb-01-1901
* 4 Place Code:	00000
*5A Inventory Route(O/U):	1
5B Route Type:	4 - County
5C Service Designation:	1- Mainline
5D Route Number:	00577
5E Directional Suffix:	0. Not applicable
*16 Latitude:	32 - 13.9092
*17 Longitude:	81 - 34.1808
98A Border Bridge:	98B: GA% 00
99 ID Number:	
*100 STRAHNET:	0- The Feature is not a STRAHNET route.
12 Base Highway Network:	Yes
13A LRS Inventory Route:	312092700
13B Sub Inventory Route:	0
101 Parallel Structure:	N. No parallel structure exists
*102 Direction of Traffic:	2- Two Way
*264 Road Inventory Mile Post:	24.41
*208 Inspection Area:	Area 10
*104 Highway System:	0- Inventory Route is not on the NHS
*26 Functional Classification:	7- Rural - Major Collector
*204A Federal Route Type:	S - Secondary.
*204B Federal Route Number:	00577
105 Federal Lands Highway:	0. Not applicable
*110 Truck Route:	0- The Feature is not part of the National Network for Trucks
217 Benchmark Elevation:	0000.00
* Location ID No:	031-00577F-024.41E

218 Datum:	0- Not Applicable
*19 Bypass Length:	7
*20 Toll:	3- On a Free Road or Non-Highway
*21 Maintenance Responsibility:	02-County Highway Agency.
*22 Owner:	02-County Highway Agency.
*31 Design Load:	5- HS 20
37 Historical Significance:	5- Not eligible for the National Register of Historic Places
205 Congressional District:	012
27 Year Constructed:	1956
106 Year Reconstructed:	0
33 Bridge Median:	0-None
34 Skew:	0
35 Structure Flared:	No
38 Navigation Control:	0- Navigation is not controlled by an Agency
213 Special Steel Design:	0- Not applicable or other
267A Type Paint Super Structure:	1- Lead Chromate Oil Alkyd System. Year : 1992
267B Type Paint Sub Structure:	3- Epoxy Mastic Year : 1992
*42A Type of Service On:	1-Highway
*42B Type of Service Under:	5-Waterway
214A Movable Bridge:	0
214B Operator on Duty:	0
203 Type Bridge:	E - Steel pile. N. Steel-Concrete M. Steel O. Concrete
259 Pile Encasement:	1
*43A Structure Type Main material:	4-Steel (Continuous)
*43B Structure Type Main Type:	2-Stringer/Multi-Beam or Girder
45 Number of Main Spans:	4
44 Structure Type Approach:	A:0- Other B: 0- Other
46 Number of Approach Spans:	0
226 Bridge Curve:	A: Vertical: NoB: Horizontal: Yes
111 Pier Protection:	N - Navigation Control item coded 0, or Feature not a waterway
107 Deck Structure Type:	1 - C-I-P Portland Cement Concrete - Epoxy Coated Rebars
108A Wearing Surface Type:	1. Concrete
108B Membrane Type:	0. None
108C Deck Protection:	8. Unknown
265 Underwater Inspection Area:	2

Signs & Attachments	
225 Expansion Joint Type:	02- Open or sealed concrete joint (silicone sealant).
242 Deck Drains:	1- Open Scuppers.
243A Parapet Location:	0- None present.
243B Parapet Height:	0.00
243C Parapet Width:	0.00
238A Curb Height:	1.2
238B Curb Material:	1- Concrete.
239A Handrail Left:	1- Concrete.
239B Handrail Right:	1- Concrete.
*240 Median Barrier Rail:	0- None.
241A Bridge Median Height:	0
241B Bridge Median Width:	0
*230A Guardrail Location Direction Rear:	3- Both sides.
*230B Guardrail Location Direction Fwr:	3- Both sides.
*230C Guardrail Location Opposing Rear:	0- None.
*230D Guardrail Location Opposing Fwr:	0- None.
244 Approach Slab:	3- Forward and Rear.
224 Retaining Wall:	0- None.
233 Posted Speed Limit:	55
236 Warning Sign:	No
234 Delineator:	Yes
235 Hazard Boards:	Yes
237A Gas:	00- Not Applicable
237B Water:	00- Not Applicable
237C Electric:	00- Not Applicable
237D Telephone:	00- Not Applicable
237E Sewer:	00- Not Applicable
247A Lighting: Street:	No
247B Navigation:	No
247C Aerial:	No
*248 County Continuity No.:	00
36A Bridge Railings:	2- Inspected feature meets acceptable construction date standards.
36B Transition:	2- Inspected feature meets acceptable construction date standards.
36C Approach Guardrail:	2- Inspected feature meets acceptable construction date standards.
36D Approach Guardrail Ends:	2- Inspected feature meets acceptable construction date standards.

Georgia Department of Transportation

Bridge Inventory Data Listing

Processed Date:Aug-15-2019 14:02:34 PM

Bridge Serial Number: 031-0017-0

County: Bulloch

SUFF. RATING: 38.7

Programming Data

201 Project Number:	00000
202 Plans Available:	4- Plans in Infolmage/GAMS
249 Proposed Project Number:	LOCBR
250A Reconstruction Approval Status:	No
250B Route Approval Status:	No
250C Approval Status Definition:	0
250D Approval Status Federal:	0
251Project Identification Number:	0015605
252 Contract Date:	Feb-01-1901
260 Seismic Number:	00000
75A Type Work Proposed:	0- Not Applicable
75B Work Done by:	0- Initial Inventory
94 Bridge Improvement Cost:(X\$1,000)	\$422
95 Roadway Improvement Cost: (X\$1,000)	\$42
96 Total Improvement Cost: (X\$1,000)	\$633
76 Improvement Length:	0'
97 Year Improvement Cost Based On:	2013
114 Future AADT:	1080
115 Future AADT Year:	2031

Measurements:

*29 AADT:	720
*30 AADT Year:	2011
109 % Truck Traffic:	1
* 28A Lanes On:	2
*28B Lanes Under:	0
210A Tracks On:	00
210B Tracks Under:	0
* 48 Maximum Span Length:	27
* 49 Structure Length:	108
51 Bridge Roadway Width:	27.8'
52 Deck Width:	34.1'
* 47 Total Horizontal Clearance:	27.8'
50A Curb / Sidewalk Width Left:	2
50B Curb / Sidewalk Width Right:	2
32 Approach Rdwy. Width:	22'
*229 Approach Roadway	
Rear Shoulder Left: Width:	5
Fwd Shoulder: Left Width:	5
Rear Pavement: Width:	22
Forward Pavement: Width:	22
Intersection Rear:	0

Ratings and Posting

65 Inventory Rating Method:	1-Load Factor (LF)
63 Operating Rating Method:	1-Load Factor (LF)
66A Inventory Type:	2 - HS loading.
66B Inventory Rating:	6
64A Operating Type:	2 - HS loading.
64B Operating Rating:	17
231Calculated Loads	
231A H-Modified:	10
231B Type3/Tandem:	00
231C Timber:	00
231D HS-Modified:	00
231E Type 3S2:	00
231F Piggyback:	00
261 H Inventory Rating:	07
262 H Operating Rating:	15
67 Structural Evaluation:	3
58 Deck Condition:	6 - Satisfactory Condition
59 Superstructure Condition:	7 - Good Condition
* 227 Collision Damage:	
60A Substructure Condition:	5 - Fair Condition
60B Scour Condition:	6 - Satisfactory Condition
60C Underwater Condition:	5 - Fair Condition
71 Waterway Adequacy:	8-Equal to present desirable criteria.
61 Channel Protection Cond.:	8-Equal to present desirable criteria.
68 Deck Geometry:	5
69 UnderClr. Horz/Vert:	N
72 Approach Alignment:	8-No reduction of vehicle operating speed required.
62 Culvert:	N - Not Applicable
70 Bridge Posting Required:	0. > 39.9% below
41 Struct Open, Posted, CL:	P. Posted for load
* 103 Temporary Structure:	No
232 Posted Loads	
232A H-Modified:	10
232B Type3/Tandem:	00
232C Timber:	00
232D HS-Modified:	00
232E Type 3s2:	00
232F Piggyback:	00
253 Notification Date:	Feb-01-1901
258 Federal Notify Date:	Feb-01-1901

Hydraulic Data

113 Scour Critical:	U. No Load Rating; no scour critical data entered.
216A Water Depth:	4
216B Bridge Height:	12.7
222 Slope Protection:	1
221A Spur Dike Rear:	
221B Spur Dike Fwd:	
219 Fender System:	0- None.
220 Dolphin:	
223A Culvert Cover:	000
223B Culvert Type:	0- Not Applicable
223C Number of Barrels:	0
223D Barrel Width:	0
223E Barrel Height:	0
223F Culvert Length:	0
223G Culvert Apron:	0
39 Navigation Vertical Clearance:	0'
40 Navigation Horizontal Clearance:	0
116 Navigation Vertical Clear Closed:	0

53 Minimum Vertical Clearance Over Rd:	99' 99"
54A Under Reference Feature:	N- Feature not a highway or railroad.
54B Minimum Clearance Under:	0' 0"
*228 Minimum Vertical Clearance	
228A Actual Odometer Direction:	99'99"
228B Actual Opposing Direction:	99'99"
228C Posted Odometer Direction:	00'00"
228D Posted Opposing Direction:	00'00"
55A Lateral Underclearance Reference:	N- Feature not a highway or railroad.
55B Lateral Underclearance on Right:	0
56 Lateral Underclearance on Left:	0
10A Direction of Travel for Max Min:	0
10B Max Min Vertical Clearance:	99'99"
245A Deck Thickness Main:	6.0
245B Deck Thickness Approach:	0
246 Overlay Thickness:	0

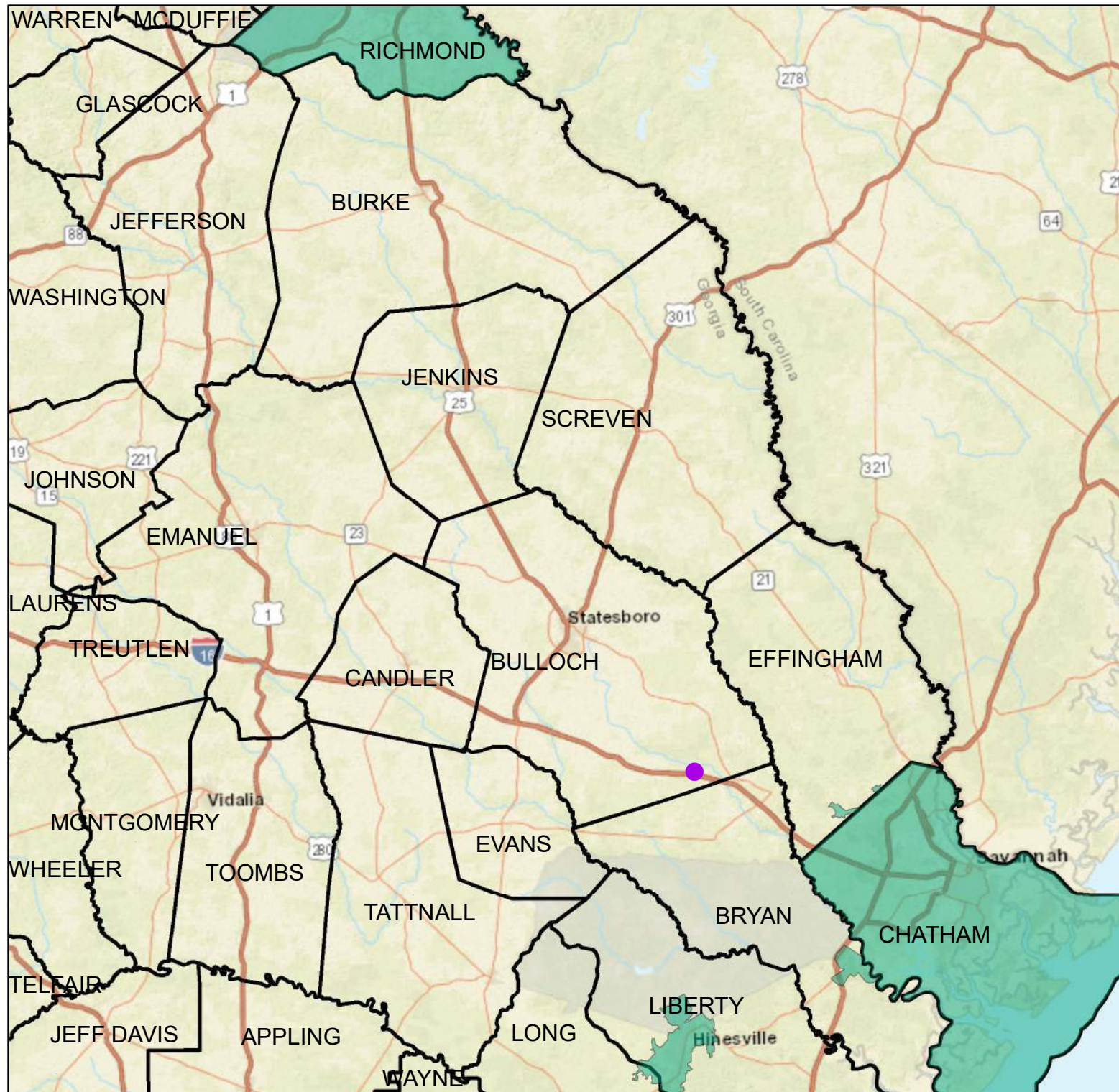
MS4 Concept Report Summary

Attach the following checklist information to the Concept Report Template:

Is there a Project Level Exclusion that applies to this project: ☐ No ☒ Yes

If yes, please indicate which of the following exclusions apply:

- ☒ Roadways that are not owned or operated (maintained) by GDOT may not require post-construction BMPs. Coordinate with the appropriate local government or entity to determine stormwater management requirements.
 - ☒ The project location is not within a designated MS4 area.
 - ☐ Maintenance and safety improvement projects whereby the sites are not connected and disturbs less than one acre at each individual site. This includes projects such as repaving, shoulder building, fiber optic line installation, sign addition, and sound barrier installation.
 - ☐ Projects that have their environmental documents approved or right-of-way plans submitted for approval on or before June 30th, 2012.
 - ☐ Road projects that disturb less than 1 acre or for site development projects that add less than 5,000 ft² of impervious area.
-



LEGEND

- Project Location
- GDOT MS4 Permitted Area

0 5 10 20 Miles

Georgia DOT

MS4 Project Level Exclusion
PI 0015605
Bulloch County

ARCADIS

FIGURE
1

RECORD OF MEETING

INTERAGENCY REVIEW TEAM (IRT) MEETING MINUTES

PI No 0015605

06/12/20 10:00 AM Virtual Microsoft Team Meeting

Meeting called by	GDOT Office of Program Delivery (GDOT OPD)
Type of meeting	Concept Team Meeting
Minutes prepared by	Patrick Pecot, Natasha Morel, Janet Middleton
Attendees	See Attached Sign-In Sheet

Arcadis U.S., Inc.
2410 Paces Ferry Road
#400
Atlanta
Georgia 30339
Tel 770 431 8666
Fax 770 435 2666

Welcome and Introductions

- Josh Pisani from GDOT Office of Program Delivery (GDOT OPD) started with a brief introduction on how the meeting would run. This virtual concept team meeting involved 3 projects PI 00015605, 0015620 and 0015641. Next, Janet Middleton, Natasha Morel and Patrick Pecot, all from Arcadis talked through the key points of the concept report via power point presentation for project PI 0015605.

Project Background

Discussion	<ul style="list-style-type: none">Project Background - Arcadis Roadway Engineer, Natasha Morel lead the discussion. This project is in Bulloch county and proposes to replace the existing bridge (structure ID 031-0017-0) on CR 927 (Old Highway 46) over Ash Branch.<ul style="list-style-type: none">ROW Authorization: May 2021 (4 Parcels)Let Date: April 2022Open to Traffic: 2023No comments
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Project Justification

Discussion	<ul style="list-style-type: none">Project Justification - Arcadis Design Manager, Janet Middleton lead the discussion. The bridge on County Route 927 (Old Highway 46) over Ash Branch, Structure ID 031-0017-0 was built in 1956. The bridge consists of four steel spans on concrete caps with steel piles. The bridge was designed using an HS-20 vehicle; however, it is not meeting current standards. The deck is in satisfactory condition with transverse cracking reaching the bottom of the deck as well as evidence of the deck joints leaking. Also, spalling has been identified on some edge beams located in span 2 and 3, and the edge
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	<p>of the deck near the joints. The superstructure is in good condition with minor corrosion on all beams. There is also evidence of horizontal cracking and spalling in all end diaphragms between all beams. The substructure is in fair condition with vertical cracking on abutments. In addition, there are exposed piles due to encasement beginning to honeycomb and crumble. The exposure has caused rusting and section loss under the encasement. Scour is also evident. Due to the age of the structure, not meeting current design standards, and condition of the substructure, replacement of this bridge is recommended.</p> <ul style="list-style-type: none"> • <u>Comment:</u> (Carol Kalafut - GDOT Office Of Bridge Design): Strike functionally obsolete from the concept report. Term is no longer used by FHWA. • <u>Comment:</u> (Janet Middleton – Arcadis) Will clean up language in concept report • <u>Comment:</u> (Carol Kalafut - GDOT Office Of Bridge Design): GDOT gave justification state 11/29/2018
Existing Conditions	
Discussion	<ul style="list-style-type: none"> • Existing Conditions - Arcadis PM, Patrick Pecot and Natasha Morel lead the discussion. <ul style="list-style-type: none"> ◦ Existing Bridge: Built in 1956 and has 4 main steel spans on concrete caps with steel piles. The bridge has a length of 108' and 34.1 ft deck width; 2 – 11 ft lanes. ◦ Existing Roadway: 2 – 11 ft lanes, with variable width unpaved shoulders ◦ Adjacent Projects: Arcadis will coordinate with all future projects • No comments
Traffic Data	
Discussion	<ul style="list-style-type: none"> • Traffic Data - Arcadis Design Manager, Janet Middleton lead the discussion. Existing Traffic memo is under review. Due to the COVID-19, no new traffic data has been collected for this project. • No comments
Environmental Coordination:	
Discussion	<ul style="list-style-type: none"> • Environmental Coordination - Natasha Morel and Janet Middleton from Arcadis lead the discussion. <ul style="list-style-type: none"> ◦ PCE expected ◦ Section 404 Permit, Stream buffer variance and Informal section 7 are anticipated on this project ◦ PDOH is anticipated to inform public to bridge closure and off-site detour ◦ No air quality or noise study needed ◦ No historical resources were identified ◦ 2 archeological resources were identified ◦ A3M Meeting is anticipated for mid-August ◦ GA Power and Bulloch Telephone; SUE is not anticipated • Comment (Derrick Cameron - GDOT): With an Informal section 7 anticipated, will this project meet May 2021 ROW Authorization?

	<ul style="list-style-type: none"> • Comment (Katheryn Graft, NV5): Schedule seems appropriate to meet ROW authorization. • Comment (Dusty Mercer): Do any of these projects qualify for a LIBP? • Comment (Josh): All of these projects have ROW authorization • Comment (Erin): Check NEPA new guidelines for public house meeting and public hearings, as the GDOT has a new process.
Detour	
Discussion	<ul style="list-style-type: none"> • Detour - Arcadis Design Manager, Janet Middleton lead the discussion. This project will utilize I-16 as detour. Early coordination with EMS indicated low impact. Arcadis continues to contact local schools for additional comments. • Comment (Brad Deal): The Kangeter property owners have expressed concerns on the how the bridge detour will impact access to their property. The owners have elderly parents that need to be tended to during construction. • Comment (Janet Middleton – Arcadis): The detour would speed up the construction and shorten the length of time the bridge is closed.
Design Features	
Discussion	<ul style="list-style-type: none"> • Design Features - Arcadis Roadway Engineer, Natasha Morel lead the discussion. <ul style="list-style-type: none"> ○ 2-11 ft lanes ○ Design Speed 45 MPH ○ SE Max – 6% ○ Bicycle warrants are met on this project and will be accommodated on the roadway with 6.5' paved shoulders and 4 -ft shoulders for the bridge. • Comment (Carol Kalafut - GDOT Office Of Bridge Design): 4 ft bike lanes/shoulders on the bridge may not be wide enough. Will provide follow-up information on bridge bike shoulder.
Alternatives Comparison	
Discussion	<ul style="list-style-type: none"> • Graphics of the impacts for each alternative were shown and discussed by the Arcadis Team. <ul style="list-style-type: none"> ○ Preferred Alternative - This alternative would replace the existing bridge in-place and detour traffic off-site. The 5.7-mile detour would require vehicles to travel on local roads with equal or greater functional capacity and I-16. This alternative was chosen because it will have a smaller footprint, requiring less right of way acquisition and possible environmental and utility impacts. <ul style="list-style-type: none"> ▪ Initial coordination with the local school, EMS and county officials for input on the detour alternative has been initiated. ○ Comment (Dave Peters – GDOT): Is there no offset between the travel lanes and the bike accommodating shoulder? Update report to shoulder to ready bikeable shoulder not “bike lane”.

	<ul style="list-style-type: none"> ○ Comment (Janet Middleton – Arcadis): Changes have been made to the project to show rumble strip between the bike lane and roadway. These changes are reflected in the concept power point presentation will be update in the revised report ○ Alternative 2 - This alignment would shift the existing alignment to the north and remain within right-of-way. However, this Alternative will require construction temporary easement acquisition. Shifting the bridge to the north will allow the bridge alignment to be on a tangent section and curves, with an SE rate of 6%, would begin/end before the bridge deck. This allows the bridge to keep a normal crown (2%). This option would allow for an on-site detour. <ul style="list-style-type: none"> ▪ Partial demolition the existing bridge, reducing the structure to one-lane, one-way. A temporary signal will be needed for one-lane traffic. This alternative would increase the cost of the project. This creates maintenance issues due to the longitudinal bridge joint on the structure. County resources to maintain it may not be available. ▪ This alternative is impractical due to the length of detour and associated local community impacts. ○ No Build – This alternative is not preferred because the sufficiency rating for the existing bridge is 38.7, showing that this bridge needs to be replaced.
Project Cost Estimate	
Discussion	<ul style="list-style-type: none"> • Project Cost Estimate - Arcadis Design Manager, Janet Middleton lead the discussion. At this time, section 404 mitigation, ROW, utilities are to be determined. • Comment (Carol Kalafut - GDOT Office Of Bridge Design): Check cost for bridge remove; typically use \$45/SF. • Comment (Carol Kalafut - GDOT Office Of Bridge Design): Check cost for bridge; typically use \$150/SF. • Comment (Janet Middleton – Arcadis): For this project \$150 for the proposed bridge was used.
Questions / Additional Discussion	
Discussion	<ul style="list-style-type: none"> • Comment (Ryan Ward – GDOT): Will the concept report meeting presentation made available? • Comment (Patrick Pecot - Arcadis): We will make the power point available. • Comment (Ryan Ward – GDOT): When will the preliminary plans be provide for tech studies? • Comment (Patrick Pecot - Arcadis): Survey for this project was just received last week. Arcadis is to start preliminary plans at risk to facilitate recovery. We will follow-up after meeting to get dates for AOE Plans submittal
Action items	<div>Person responsible</div> <div>Deadline</div>

MEETING MINUTES

Follow up with Ryan Ward – for preliminary plan submittal	Arcadis	ASAP
Provide concept team meeting power point presentation	Arcadis	ASAP
Update changes to concept report based on meeting comments provided.	Arcadis	ASAP
Carol Kalafut to follow up with additional information for proposed bridge width with bike lane.	Carol Kalafut	ASAP
Comments from attendees	All	6/19/2020

Sign-in Sheet

Concept Team Meetings

PI No.	Project Description	Name	Company	Phone	email
0015605	CR 927/OLD HWY 46 @ ASH BRANCH	Patrick Pecot	Arcadis	770-384-6588	patrick.pecot@arcadis.com
		Joshua Pisani	GDOT - Program Delivery	478-321-7327	jpisani@dot.ga.gov
		Derrick Cameron	GDOT - Program Delivery		dcameron@dot.ga.gov
		Janet Middleton	Arcadis	770-384-6566	janet.middleton@arcadis.com
		Patrick Pecot	Arcadis	770-384-6588	patrick.pecot@arcadis.com
		Natasha Morel	Arcadis		natasha.morel@arcadis.com
		Kumari Duvvuri	Arcadis	770-384-6620	Sri.Duvvuri@arcadis.com
		Ryan Ward	GDOT - OES	404-347-0176	ryward@dot.ga.gov
		Annie Williams	GDOT - OES	404-631-1468	awilliams@dot.ga.gov
		Clayton Collins	GDOT - OES		ccollins@dot.ga.gov
		John Royal	GDOT - Utilities	912-242-9230	jroyal@dot.ga.gov
		Katheryn Graff	GDOT - OES		kgraff@dot.ga.gov
		Troy Pittman	GDOT - District 5 Preconstruction	912-530-4387	trpittman@dot.ga.gov
		Binyam, Araya	GDOT - District 5	912-651-2144	baraya@dot.ga.gov
		Justin Thrift	GDOT		jthrift@dot.ga.gov
		Brad Deal	Bulloch County - County Engineer	912-764-0127	
		Kevin Weitman			
		Dale Nembhard			
		Howard Anderson			
		Dave Peters	GDOT - Concept Design		dpeters@dot.ga.gov
PI No.	Project Description	Name	Company	Phone	email
		Patrick Pecot	Arcadis	770-384-6588	patrick.pecot@arcadis.com
		Joshua Pisani	GDOT - Program Delivery	478-321-7327	jpisani@dot.ga.gov
		Derrick Cameron	GDOT - Program Delivery		dcameron@dot.ga.gov
		Steven Gaines	American Consulting Prof. LLC	470-207-0635	sgaines@acp-ga.com
		Allen Peterfreund	American Consulting Prof. LLC	706-229-6951	allen.peterfreund@acp-ga.com
		Kumari Duvvuri	Arcadis	770-384-6620	Sri.Duvvuri@arcadis.com

Sign-in Sheet

Concept Team Meetings

0015620	CR 203/SHILOH CHURCH ROAD @ SURVEYORS CREEK	Katheryn Graff	GDOT - OES		kgraff@dot.ga.gov
		Clayton Collins	GDOT - OES		ccollins@dot.ga.gov
		Ryan Ward	GDOT - OES	404-347-0176	ryward@dot.ga.gov
		Annie Williams	GDOT	404-631-1468	awilliams@dot.ga.gov
		Troy Pittman	GDOT - District 5 Preconstruction	912-530-4387	trpittman@dot.ga.gov
		Binyam, Araya	GDOT - District 5	912-651-2144	baraya@dot.ga.gov
		John Royal	GDOT - Utilities	912-242-9230	jroyal@dot.ga.gov
		Justin Thrift	GDOT		jthrift@dot.ga.gov
		Kevin Weitman			
		Dale Nembhard			
		Howard Anderson			
		Dave Peters	GDOT - Concept Design		dpeters@dot.ga.gov
		Dusty Mercer	GDOT Construction		dmercer@dot.ga.gov
PI No.	Project Description	Name	Company	Phone	email
0015641	CR305/TYRE BRIDGE ROAD @ SIXTY FOOT CREEK	Patrick Pecot	Arcadis	770-384-6588	patrick.pecot@arcadis.com
		Joshua Pisani	GDOT - Program Delivery	478-321-7327	jpisani@dot.ga.gov
		Derrick Cameron	GDOT - Program Delivery		dcameron@dot.ga.gov
		Steven Gaines	American Consulting Prof. LLC	470-207-0635	sgaines@acp-ga.com
		Susan Beck	GDOT Bridge Office	706-229-6951	sbeck@dot.ga.gov
		Kumari Duvvuri	Arcadis	770-384-6620	Sri.Duvvuri@arcadis.com
		Katheryn Graff	GDOT - OES		kgraff@dot.ga.gov
		Clayton Collins	GDOT - OES		ccollins@dot.ga.gov
		Ryan Ward	GDOT - OES	404-347-0176	ryward@dot.ga.gov
		Annie Williams	GDOT	404-631-1468	awilliams@dot.ga.gov
		Troy Pittman	GDOT - District 5 Preconstruction	912-530-4387	trpittman@dot.ga.gov
		Binyam, Araya	GDOT - District 5	912-651-2144	baraya@dot.ga.gov
		John Royal	GDOT - Utilities	912-242-9230	jroyal@dot.ga.gov
		Dusty Mercer	GDOT Construction		dmercer@dot.ga.gov

Sign-in Sheet

Concept Team Meetings

	Justin Thrift	GDOT		jthrift@dot.ga.gov
	Kevin Weitman			
	Dale Nembhard			
	Howard Anderson			
	Dave Peters	GDOT - Concept Design		dpeters@dot.ga.gov
	Dusty Mercer	GDOT Construction		dmercer@dot.ga.gov
	Jason Rubenbauer	Pierce County Manager		

AGENDA

A3M MEETING MINUTES			Arcadis U.S., Inc. 2410 Paces Ferry Road #400 Atlanta Georgia 30339 Tel 770 431 8666 Fax 770 435 2666
08/21/20	9:00 AM	Virtual TEAMS Meeting	
A3M Meeting for 0015605, 0015620, and 0015641			
Meeting called by		GDOT Office of Program Delivery (GDOT OPD)	
Type of meeting		A3M Meeting	
Attendees		See Attached Sign-In Sheet	
Item		Presenter	
Welcome / Introduction / Sign-In		Joshua Pisani	
PI 0015605 - CR 927/OLD HWY 46 @ ASH BRANCH 11.6 MI SE OF BROOKLET, Bulloch County			
Minutes prepared by		Natasha Morel, Patrick Pecot and Janet Middleton	
Discussion	<ul style="list-style-type: none">o Team<ul style="list-style-type: none">• Prime/PM/Traffic/Roadway/Bridge – Arcadis• Survey – Accura Cons. and Eng., Inc.		Patrick Pecot
	<ul style="list-style-type: none">o Roadway Approach Limitso Structure Layouto Overview of Resourceso Ecologyo Buffer Impactso Wetland Impacts		Janet Middleton, Patrick Pecot, Katheryn Graff
	The resources have been identified and are shown on the plans. Constructability of the bridge was discussed.		
	Existing riprap will be removed, and h-piles will be pulled. We are off setting the bents from the existing bents. In assuming the worse, work bridge will be needed on this project as shown on sheet 20, in lieu of crane matting.		
	Coffer dams are used for under water construction not for demolition and will not be used on this project. Vibratory hammer will be utilized.		

Arcadis will remove the 25' buffer around Open Water #1 (OW#1) is and Ephemeral Channel #2 (EC#2). OW #1 has no outlet and does not cross any boundaries. New federal regulation qualifies EC#2 as non-buffered state water.

Orange barrier fencing (OBF) will be added to the plans within right-of-way, around and leading up to the wetlands. For construction purposed place OBF with enough spacing to allow for construction equipment to move freely. Arcadis anticipates provide 15' offset from cut/fill and 5' offset from silt fence (10' offset from cut/fill).

Cut lines at rip rap will added to the plans. Will tie back to existing ground so that OW#1 is not impacted.

John Royal: Keep in mind that there are buried telecommunication lines on both sides of the existing bridge that will be only about 2 to 3 feet deep and any cut lines will need to be shown on the section 23 and 24 plan sheets. Owners tend to think that they can leave their facilities where there is only a fill line shown. The telephone lines will need to be relocated

The 2 archeological resources for the project have been located but not specified. They are located outside project limits. Christine Maverick confirmed there was no need for underwater archeology.

At the time of investigation, Ash Branch was impounded, and no water was flowing. Therefore, it was labeled as an open water resource.

Drainage for the bridge has not been completed; however, the bridge is in super and scuppers will possibly be used. Currently there is no environmental concerns with using scuppers and draining water into OW#4/Ash Branch.

Special provision will be needed for snakes and the spotted turtle.

Wetland buffers are not needed on this project, because resources will not be actively living in the wetland while construction is occurring.

Since design was started at risk by Arcadis, 1st submittal utilities are anticipated to be submitted in the following week.

PI0015620 - CR 203/SHILOH CHURCH RD @ SURVEYORS CREEK S OF HOMERVILLE, Clinch County

	<ul style="list-style-type: none"> ○ Team <ul style="list-style-type: none"> ● Prime/PM/Traffic – Arcadis ● Roadway/Bridge - American Consulting ● Survey – Accura Cons. and Eng., Inc. 	Patrick Pecot
Discussion	<ul style="list-style-type: none"> ○ Roadway Approach Limits ○ Structure Layout ○ Overview of Resources ○ Ecology ○ Buffer Impacts 	Steven Gaines, Patrick Pecot, Mark Grindstaff

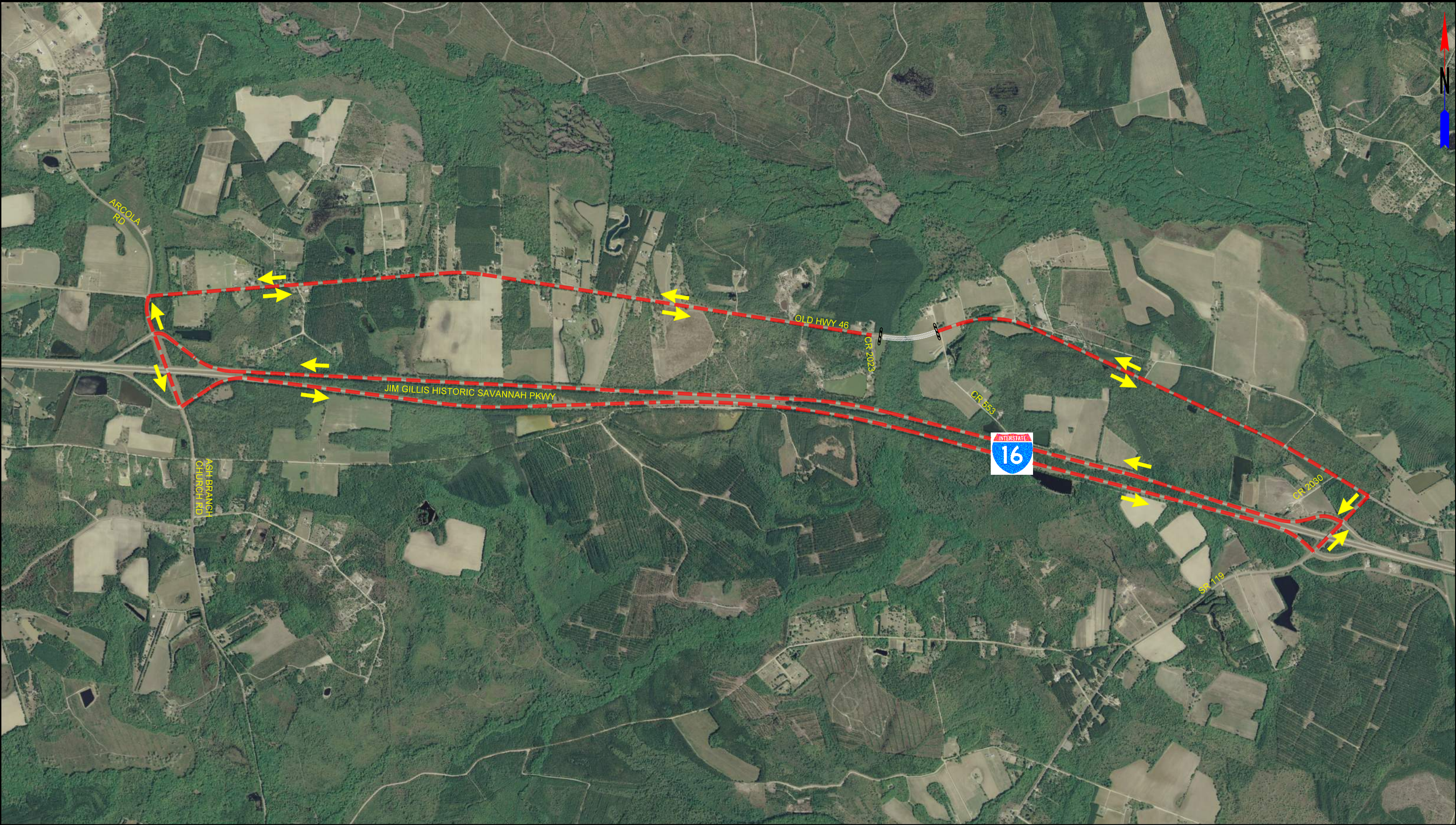
AGENDA

	<ul style="list-style-type: none"> ○ Wetland Impacts ○ Additional Comments/Questions 	
PI0015641 - CR 305/TYRE BRIDGE RD @ SIXTY FOOT CREEK N OF PATTERSON CITY, Pierce County		
	<ul style="list-style-type: none"> ○ Team <ul style="list-style-type: none"> • Prime/PM/Traffic/Survey – Arcadis • Roadway - American Consulting • Bridge – GDOT Bridge Group • SUE – Accura Cons. and Eng., Inc. 	Patrick Pecot
Discussion	<ul style="list-style-type: none"> ○ Roadway Approach Limits ○ Structure Layout ○ Overview of Resources ○ Ecology ○ Buffer Impacts ○ Wetland Impacts ○ Additional Comments/Questions 	Steven Gaines, Patrick Pecot, Mark Grindstaff
	Addition Questions/Comments	All
Action Item Review		
Provide plans and dgn files for 1 st Utility submission.		

Sign-in Sheet

A3M Meeting

PI No.	Project Description	Name	Company	Phone	email
0015605 0015620 0015641	(Bulloch, Clinch, Pierce Counties) - LOCBR Bundle 0015605-CR 927/Old Hwy 46 over Ash Branch in Bulloch County 0015620 - CR 203/Shiloh Church Rd @ Surveyors Creek S of Homerville 0015641-CR 305/Tyre Bridge Rd @ Sixty Foot Creek N of Patterson City	Patrick Pecot	Arcadis	770-384-6588	patrick.pecot@arcadis.com
		Joshua Pisani	GDOT - Program Delivery	478-321-7327	jpisani@dot.ga.gov
		Janet Middleton	Arcadis	770-384-6566	janet.middleton@arcadis.com
		Natasha Morel	Arcadis	770-384-6589	natasha.morel@arcadis.com
		Beau Marshall	NV5	678-795-3619	Beau.Marshall@nv5.com
		Trevor Brown	GDOT - District Construction		trbrown@dot.ga.gov
		Aaron Burgess	GDOT - NEPA		AaBurgess@dot.ga.gov
		Clayton Collins			ClCollins@dot.ga.gov
		Donn Digamon	GDOT - Bridge	404-631-1847	dodigamon@dot.ga.gov
		Donald Henderson			
		Katheryn Graff	NV5	404-808-8762	katheryn.graff@nv5.com
		Mary Trudeau			mtrudeau@edwards-pitman.com
		Dusty Mercer	GDOT - District Construction		dmercer@dot.ga.gov
		Steven Gaines	American Consulting Professionals	470-207-0635	sgaines@acp-ga.com
		Trieu Tran			
		Andrea Wahl	GDOT - OES - Ecology	404-631-1691	awwahl@dot.ga.gov
		Ryan Ward	GDOT - OES - Ecology	404-347-0176	ryward@dot.ga.gov
		Greg Wasdin			gwasdin@dot.ga.gov
		Kevin Weitman	GDOT - District Construction		kweitman@dot.ga.gov
		Christine Mavrick	GDOT - OES - Archaeology		cmavrick@dot.ga.gov
		Howard Anderson	American Consulting Professionals		Handerson@acp-ga.com
		Brandon McDaniel			bmcdaniel@dot.ga.gov
		Michael Garner			mgarner@dot.ga.gov
		Ogden			Logden@dot.ga.gov
		Douglas Chamblin			dchamblin@dot.ga.gov
		John Royal	GDOT - D5 Utilities	912-242-9230	jroyal@dot.ga.gov



DETOUR DISPLAY NOTES

DETOUR ROUTE LENGTH - 5.7 MILES
NORMAL ROUTE LENGTH - 5.5 MILES
NET LENGTH INCREASE - 0.2 MILES



DISPLAY LEGEND

PROJECT AREA/
WORK SPACE  DETOUR ROUTE 
TRAFFIC PATTERN  BARRICADE 

SCALE IN FEET
0 1000 2000 4000

CONCEPT DISPLAY - DETOUR PLAN

CR 927/OLD HWY 46 @ ASH BRANCH
11.6 MI SE OF BROOKLET

BULLOCH COUNTY
P. I. NO. : 0015605



Office of Program Delivery/AECOM

600 West Peachtree St, 25th Floor
Atlanta, GA 30308
Mobile: (478) 321-7327
E-mail: jpisani@dot.ga.gov

From: Pittman, Troy <trpittman@dot.ga.gov>

Sent: Tuesday, August 4, 2020 3:50 PM

To: Pisani, Joshua <JPisani@dot.ga.gov>

Cc: Henry, Jeff <JHenry@dot.ga.gov>; Mercer, Dusty <dmercerc@dot.ga.gov>; Araya, Binyam <baraya@dot.ga.gov>; Weitman, Kevin <kweitman@dot.ga.gov>; McCall, Robert <rmccall@dot.ga.gov>

Subject: RE: PI#'s 0015605, 0015620, 0015641 (Bulloch, Clinch, Pierce Counties) - Request for concurrence statement, off-site detour and preferred concept alternative

Joshua,

I have reviewed the proposed off-site detour routes, preferred alternative justifications, and CTM minutes for 0015605, 0015620, and 0015641 for Bulloch, Clinch, and Pierce Counties respectively. The District concurs with the proposed off-site detour routes provided that PDOHs are conducted for each project.

Thanks

Troy D. Pittman, P.E.

District Preconstruction Engineer



District 5 Jesup
204 Hwy 301 North
P.O. Box 610
Jesup, GA, 31546
912.530.4387 office
912.282.3880 cell

From: Pisani, Joshua <JPisani@dot.ga.gov>

Sent: Monday, August 3, 2020 1:34 PM

To: Pittman, Troy <trpittman@dot.ga.gov>

Cc: Henry, Jeff <JHenry@dot.ga.gov>; Mercer, Dusty <dmercerc@dot.ga.gov>; Araya, Binyam <baraya@dot.ga.gov>; Weitman, Kevin <kweitman@dot.ga.gov>

Subject: PI#'s 0015605, 0015620, 0015641 (Bulloch, Clinch, Pierce Counties) - Request for concurrence statement, off-site detour and preferred concept alternative

Importance: High

Good Afternoon Mr. Pittman,

I am the GDOT Project Manager for a bundle of LOCBR-programmed bridges being designed by the consultant ARCADIS. They are PI#'s 0015605, 0015620, and 0015641, located in Bulloch, Clinch, and Pierce Counties, respectively. Their locations are:

0015605: CR 927/OLD HWY 46 @ ASH BRANCH 11.6 MI SE OF BROOKLET

0015620: CR 203/SHILOH CHURCH ROAD @ SURVEYORS CREEK S OF HOMERVILLE

0015641: CR 305/TYRE BRIDGE RD @ SIXTY FOOT CREEK N OF PATTERSON CITY

For the three LOCBR projects listed above, I am seeking a statement of concurrence that the preferred alternative for these projects utilizing an off-site detour is acceptable, and that the team has the districts' concurrence on the detour as mapped. I have attached the detour maps from the latest consultant-generated concept report revisions for your review. Meeting minutes from the Concept Team Meeting held 06/12/2020 have also been attached.

For all PI#'s, the preferred alternative is to replace the bridge on the existing alignment while utilizing an off-site detour. This preferred alternative was chosen for these projects because it will have a smaller footprint, require less right of way acquisition and will decrease environmental impacts. The concurrence that I am looking for is to be added as additional rationale to preferred alternatives in the concept reports.

If you agree with the concept alternative rationales and detours after your review, please provide a statement of concurrence to be used in the reports. It would be greatly appreciated.

I can be contacted via email, or by phone directly at (478) 321-7327 if there are any additional questions or concerns.

Thanks,

Joshua Pisani, EIT
Consultant Project Manager



Office of Program Delivery/AECOM
600 West Peachtree St, 25th Floor
Atlanta, GA 30308
Mobile: (478) 321-7327
E-mail: jpisani@dot.ga.gov

You take every precaution - wash your hands, social distance, wear a mask. So, if you must drive, consider this ... higher speeds make for more serious crashes. To decrease the odds of a serious crash increase the distance between you and the vehicle in front of you. And slow down to the posted speed limit. Drive Alert Arrive Alive, Georgia.